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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of John B. Ferber

Serial No.: Not yet assigned

Group Art Unit:

Filed: Herewith

Examiner:

For: **Method and Apparatus for an E-mail Affiliate Program**

Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

Dear Sir:

Enclosed please find the following:

1. Specification, abstract and claims (2 independent, 17 dependent, 19 total) (28 pages);
2. Informal drawings (2 figures, 2 sheets);
3. Un-executed Declaration and Power of Attorney;
4. One check in the amount of \$355.00; and,
5. Certificate of Express mailing.

The applicant is a small entity according to 37CFR \$1.27(c), and is thus entitled to pay reduced fees. The Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to Deposit Account No. 18-1579. The Commissioner is also authorized to charge Deposit Account No. 18-1579 for any future fees connected in any way to this application. Two copies of this letter are enclosed.

Respectfully submitted,



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Parameter	Value
Age	1.2
Sex	1.5
Weight	1.8
Height	1.5
Body mass index	1.2
Heart rate	1.5
Stroke volume	1.2
Cardiac output	1.5
Systemic vascular resistance	1.2
Pulmonary vascular resistance	1.5
Mean arterial pressure	1.2
Diastolic pressure	1.5
Systolic pressure	1.2
Heart rate variability	1.5
Stroke volume variability	1.2
Cardiac output variability	1.5
Systemic vascular resistance variability	1.2
Pulmonary vascular resistance variability	1.5
Mean arterial pressure variability	1.2
Diastolic pressure variability	1.5
Systolic pressure variability	1.2
Heart rate variability (SD)	1.5
Stroke volume variability (SD)	1.2
Cardiac output variability (SD)	1.5
Systemic vascular resistance variability (SD)	1.2
Pulmonary vascular resistance variability (SD)	1.5
Mean arterial pressure variability (SD)	1.2
Diastolic pressure variability (SD)	1.5
Systolic pressure variability (SD)	1.2
Heart rate variability (CV)	1.5
Stroke volume variability (CV)	1.2
Cardiac output variability (CV)	1.5
Systemic vascular resistance variability (CV)	1.2
Pulmonary vascular resistance variability (CV)	1.5
Mean arterial pressure variability (CV)	1.2
Diastolic pressure variability (CV)	1.5
Systolic pressure variability (CV)	1.2
Heart rate variability (IQR)	1.5
Stroke volume variability (IQR)	1.2
Cardiac output variability (IQR)	1.5
Systemic vascular resistance variability (IQR)	1.2
Pulmonary vascular resistance variability (IQR)	1.5
Mean arterial pressure variability (IQR)	1.2
Diastolic pressure variability (IQR)	1.5
Systolic pressure variability (IQR)	1.2
Heart rate variability (range)	1.5
Stroke volume variability (range)	1.2
Cardiac output variability (range)	1.5
Systemic vascular resistance variability (range)	1.2
Pulmonary vascular resistance variability (range)	1.5
Mean arterial pressure variability (range)	1.2
Diastolic pressure variability (range)	1.5
Systolic pressure variability (range)	1.2
Heart rate variability (min-max)	1.5
Stroke volume variability (min-max)	1.2
Cardiac output variability (min-max)	1.5
Systemic vascular resistance variability (min-max)	1.2
Pulmonary vascular resistance variability (min-max)	1.5
Mean arterial pressure variability (min-max)	1.2
Diastolic pressure variability (min-max)	1.5
Systolic pressure variability (min-max)	1.2
Heart rate variability (mean ± SD)	1.5
Stroke volume variability (mean ± SD)	1.2
Cardiac output variability (mean ± SD)	1.5
Systemic vascular resistance variability (mean ± SD)	1.2
Pulmonary vascular resistance variability (mean ± SD)	1.5
Mean arterial pressure variability (mean ± SD)	1.2
Diastolic pressure variability (mean ± SD)	1.5
Systolic pressure variability (mean ± SD)	1.2
Heart rate variability (median ± IQR)	1.5
Stroke volume variability (median ± IQR)	1.2
Cardiac output variability (median ± IQR)	1.5
Systemic vascular resistance variability (median ± IQR)	1.2
Pulmonary vascular resistance variability (median ± IQR)	1.5
Mean arterial pressure variability (median ± IQR)	1.2
Diastolic pressure variability (median ± IQR)	1.5
Systolic pressure variability (median ± IQR)	1.2
Heart rate variability (range ± SD)	1.5
Stroke volume variability (range ± SD)	1.2
Cardiac output variability (range ± SD)	1.5
Systemic vascular resistance variability (range ± SD)	1.2
Pulmonary vascular resistance variability (range ± SD)	1.5
Mean arterial pressure variability (range ± SD)	1.2
Diastolic pressure variability (range ± SD)	1.5
Systolic pressure variability (range ± SD)	1.2
Heart rate variability (mean ± SD, range)	1.5
Stroke volume variability (mean ± SD, range)	1.2
Cardiac output variability (mean ± SD, range)	1.5
Systemic vascular resistance variability (mean ± SD, range)	1.2
Pulmonary vascular resistance variability (mean ± SD, range)	1.5
Mean arterial pressure variability (mean ± SD, range)	1.2
Diastolic pressure variability (mean ± SD, range)	1.5
Systolic pressure variability (mean ± SD, range)	1.2
Heart rate variability (median ± IQR, range)	1.5
Stroke volume variability (median ± IQR, range)	1.2
Cardiac output variability (median ± IQR, range)	1.5
Systemic vascular resistance variability (median ± IQR, range)	1.2
Pulmonary vascular resistance variability (median ± IQR, range)	1.5
Mean arterial pressure variability (median ± IQR, range)	1.2
Diastolic pressure variability (median ± IQR, range)	1.5
Systolic pressure variability (median ± IQR, range)	1.2
Heart rate variability (range, mean ± SD)	1.5
Stroke volume variability (range, mean ± SD)	1.2
Cardiac output variability (range, mean ± SD)	1.5
Systemic vascular resistance variability (range, mean ± SD)	1.2
Pulmonary vascular resistance variability (range, mean ± SD)	1.5
Mean arterial pressure variability (range, mean ± SD)	1.2
Diastolic pressure variability (range, mean ± SD)	1.5
Systolic pressure variability (range, mean ± SD)	1.2
Heart rate variability (range, median ± IQR)	1.5
Stroke volume variability (range, median ± IQR)	1.2
Cardiac output variability (range, median ± IQR)	1.5
Systemic vascular resistance variability (range, median ± IQR)	1.2
Pulmonary vascular resistance variability (range, median ± IQR)	1.5
Mean arterial pressure variability (range, median ± IQR)	1.2
Diastolic pressure variability (range, median ± IQR)	1.5
Systolic pressure variability (range, median ± IQR)	1.2
Heart rate variability (range, range ± SD)	1.5
Stroke volume variability (range, range ± SD)	1.2
Cardiac output variability (range, range ± SD)	1.5
Systemic vascular resistance variability (range, range ± SD)	1.2
Pulmonary vascular resistance variability (range, range ± SD)	1.5
Mean arterial pressure variability (range, range ± SD)	1.2
Diastolic pressure variability (range, range ± SD)	1.5
Systolic pressure variability (range, range ± SD)	1.2
Heart rate variability (range, range, mean ± SD)	1.5
Stroke volume variability (range, range, mean ± SD)	1.2
Cardiac output variability (range, range, mean ± SD)	1.5
Systemic vascular resistance variability (range, range, mean ± SD)	1.2
Pulmonary vascular resistance variability (range, range, mean ± SD)	1.5
Mean arterial pressure variability (range, range, mean ± SD)	1.2
Diastolic pressure variability (range, range, mean ± SD)	1.5
Systolic pressure variability (range, range, mean ± SD)	1.2
Heart rate variability (range, range, median ± IQR)	1.5
Stroke volume variability (range, range, median ± IQR)	1.2
Cardiac output variability (range, range, median ± IQR	

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Title: Method and Apparatus for an E-mail Affiliate Program

Inventor: John Ferber

1 RELATED APPLICATIONS

2 This application claims the benefit of U.S Provisional Application No. 60/166,690, titled
3 "E-mail Affiliate Program and Process," filed November 20, 1999.
4

5 FIELD OF THE INVENTION

6 This invention is drawn to an e-mail affiliate program and process for marketing
7 purposes. It includes software for the implementation of a system to produce e-mail marketing
8 lists. A preferred embodiment for these lists is to supply subscribers for Internet publications
9 commonly known as "ezines".
10

11 BACKGROUND OF THE INVENTION

12 In recent years, the exponential growth of the network of computer networks known as
13 the Internet has also lead to enormous growth in the area of "on-line" advertising. One popular
14 channel of on-line advertising has been e-mail.

15 Typically, entities have collected e-mail addresses from various sources, such as by
16 manually collecting or using spiders or bots to collect e-mail addresses from news groups or
17 auction sites on the Internet. They then broadcast or "spam" an identical, unsolicited marketing
18 message to their collected list. Needless to say, these unsolicited messages annoy most recipients
19 and result in very low response rates. Additionally, many recipients regard the "spam" as an
20 invasion of their privacy. What is needed is a system that sends marketing messages only to those

1 who "opt-in" and increases both the number of participants and/or the number of responses by
2 offering incentives.

3 4 BRIEF SUMMARY OF THE INVENTION

5 The present invention is drawn to software that allows an enterprise to offer cash, prizes,
6 or incentives to webmasters or consumers in exchange for their assistance in (i) accumulating
7 subscribers or e-mail addresses and/or (ii) getting subscribers to view advertisements or to refer
8 associates to the program.

9 The subscribers (typically subscribed via their e-mail address) may subscribe for content-
10 based subscriptions/newsletters/alerts, marketing message only-based subscriptions/mailings,
11 and incentive-based subscriptions where the subscriber may receive incentives, such as payment
12 in cash, program points toward prizes, discounts on products or opportunities to win
13 sweepstakes, in exchange for responding to future e-mails and other marketing messages or
14 content delivered through internet-enabled channels.

15 The present invention includes:

- 16 a) a sign-up means that allows webmasters or consumers to enter their information,
17 including e-mail address, and the right to market to it, online through a web browser
18 so that they can participate into the program;
- 19 b) a set of instructions and computer coding into which the webmaster or participant
20 must use as a method of which to promote the program , including prompting the user
21 for an action, like entering information or clicking somewhere, before they are
22 eligible;
- 23 c) a statistical interface which provides the webmaster or participant with a way to see

1 how many subscribers and/or referrals they have generated and or what
2 revenue/prizes/incentives they have accumulated to date (either instantly directly after
3 the transaction, or at any time as a cumulative sum of all chance possibilities that
4 have occurred in the past); and

5 d) a software application which allows an administrator of the program to

6 1) view accounts of participants,

7 2) view number of participants,

8 3) edit information on participants,

9 4) keep track of subscriber and webmaster referral information, and

10 5) send e-mails to the subscribers and/or the participants.

11 The software allows a consumer to sign-up to subscribe for delivery of information or
12 content such as ezines, newsletters, alerts or marketing messages with each such delivery to be
13 sent to the subscriber's e-mail address. Consumers may subscribe for more than one offering
14 (i.e., co-registration).

15 The e-mail delivery system of the present invention includes a system that consists of
16 software and hardware allowing the owner of a mailing list the ability to e-mail out marketing
17 messages to their subscribers and enable them to track the responses of those messages.

18 Tracking of responses includes:

- 19 a) whether the subscriber received the e-mail, opened the e-mail, read the e-mail, how
20 long they read the e-mail, did they perform any action inside of the e-mail such as fill
21 in information, click on a hyperlink;
- 22 b) the geographic location of the subscriber(s), area code, domain name, ISP, sex,
23 marital status, occupation, etc... this reporting can be in the form of individually

1 reported data or group reported data;

- 2 c) the ability to track subscribers over time in regards to all of the e-mails they have
3 received, the ads they have received, the ads they have responded to, characteristics
4 about that subscriber, including, but not limited to, observed behavior, demograhic
5 and pyschographic data that is available on the subscriber;
- 6 d) the ability to track on a timeline when any of the actions, such as opening, clicking,
7 etc., occurred for the population sample mailed to; and
- 8 e) the ability to send different messages to sample groups with the same info, decision
9 which message is most effective, and send more of the better-performing message to
10 the rest of the population with the same or similar demographics/details.

11 It is an object of the present invention to provide software that allows an enterprise to
12 offer cash, prizes, or incentives to webmasters or consumers in exchange for their assistance in
13 (i) accumulating subscribers or e-mail addresses and/or (ii) getting subscribers to view
14 advertisements or to refer associates to the program.

15 It is an object of the invention to provide the ability to reliably deliver marketing
16 messages to millions of recipients on a periodic or demand basis.

17 It is a further object of the invention to store e-mail marketing information directly in a
18 database instead of flat files or other file formats.

19 It is another object of the invention to import existing participant e-mail marketing
20 information from flat files or other file formats into a new database.

21 It is another object of the invention to keep e-mail marketing statistics about each e-mail
22 subscriber, including: lists subscribed (including start and end date), total number of e-mails sent
23 to this subscriber, which ads e-mailed to this subscriber, and which ads clicked by this

1 subscriber.

2 It is yet another object of the invention to keep statistics about each referring participant
3 in an e-mail marketing program, including the number of subscribers referred and the referring
4 (multi-level) participant.

5 It is an object of the invention to provide the ability for e-mail marketing list creator to
6 submit each issue's content via a web interface.

7 It is an object of the invention to provide the ability for e-mail marketing recipients to
8 subscribe or unsubscribe to one or more lists via e-mail via an internet, with web-based
9 confirmation.

10 It is another object of the invention to provide the ability to launch list distribution for e-
11 mail marketing via a web-based interface for one or more mailing lists, allowing administrators
12 to specify a time to automatically launch the distribution.

13 It is an object of the invention to provide the ability for participants to sign-up for an e-
14 mail marketing program via a web-based interface, and indicate a referring webmaster or
15 subscriber.

16 It is an object of the invention to provide the ability for participants in an e-mail
17 marketing program to check their statistics via a web-based interface.

18 It is another object of the invention to allow subscribers to modify their sign-up profile,
19 including the list of information or content they want to receive.

20 It is another object of the invention to provide the ability to monitor the performance of
21 the content delivery in an e-mail marketing system, including status of particular content (current
22 status, % of content delivered, time started/stopped, etc), system throughput (number of
23 recipients per each piece of content delivered, per day, bounced e-mails, etc.),

1 subscription/unsubscription per day per particular content, and bandwidth usage.

2 It is another object of the invention to remove bogus/undeliverable addresses in an e-mail
3 marketing system.

4 It is another object of the invention to provide an e-mail marketing program with real-
5 time or batch subscribe and delete facilities via a web or an e-mail interface.

6 It is an object of the invention to provide the ability to show ads on “public” web
7 interfaces to the content delivery system in an e-mail marketing program (i.e., when subscribers
8 confirm their subscription, show an ad on that page).

9 It is an object of the invention to provide documentation on how each component of an e-
10 mail marketing system works.

11 It is an object of the invention to provide the ability to test an e-mail marketing system.

12 It is an object of the invention to provide a web or an e-mail interface to allow e-mail
13 marketing subscribers to retrieve ezine back issues with new ads.

14 It is an object of the invention to provide personalized content and ads for individual
15 recipients, specifically selecting content based upon attributes in a subscriber database (e.g.,
16 gender, age, chosen topics, etc.).

17 It is an object of the invention to provide an HTML sniffer to determine if a given e-mail
18 marketing subscriber can receive HTML e-mail.

19 It is an object of the invention to provide the ability to add/edit/modify ads stored in a
20 database via web interface.

21 It is an object of the invention to provide the ability to detect fraud in an e-mail marketing
22 program.

23 It is an object of the invention to provide the ability to monitor e-mail marketing system

1 CPU/memory/disk/throughput usage on an hourly/daily/monthly or other assessment period
2 basis.

3 It is an object of the invention to provide the ability to gather info about qmail usage via
4 qmailanalog package.

5 It is an object of the invention to integrate ad responses in an e-mail marketing system
6 with an advertising server, including the ability to track which ads a subscriber responded to.

7 It is an object of the invention to provide the ability to send cookies to subscribers when
8 they confirm their subscription to an e-mail marketing program and link these up with advertiser
9 server cookies.

10 It is an object of the invention to provide the ability to construct new (temporary) "sub-
11 lists" from any set of e-mail marketing subscribers in the database via a web interface.

12 It is an object of the invention to provide the ability for content creators to automatically
13 include ads in an issue without manually inserting lengthy code.

14 It is an object of the invention to keep e-mail marketing statistics about each ad e-mailed,
15 including total times each ad e-mailed, how many times each ad e-mailed per ezine, total times
16 each ad responded to, and total unique responses for each ad.

17 18 BRIEF DESCRIPTION OF THE DRAWINGS

19 **Figure 1** illustrates a basic network architecture for practicing the present invention.

20 **Figure 2** illustrates a basic flow diagram for practicing the present invention.

21 22 DETAILED DESCRIPTION OF THE INVENTION

23 As used herein, the term "webmaster" refers to any entity, including an individual or

1 publisher, who uses a website to deliver or generate new subscribers to a product or service. A
2 “participant” refers to any user of the present invention, including a webmaster or a subscriber.

3 The term “click(s)” refers to any measurable response from a consumer, including, but
4 not limited to, selection by a mouse, rollerball, pointer, stylus, jog-dial, or any other user-
5 selection device, and/or conversions or sales resulting therefrom. The term “internet” refers to
6 any network of networks, whether wired or wireless, including WANs and global networks such
7 as the ARPAnet-derived network commonly referred to as the Internet and the high-bandwidth
8 Internet2.

9 The terms “ad(s)” and “advertisement(s)” refer to any creative or content produced, at
10 least in part, for advertising purposes such as branding or the promotion of products or services.
11 The term “e-mail” refers to any messaging to a specific entity over an internet to an internet-
12 enabled device, including, but not limited to, both ordinary SMTP-based POP3 and IMAP e-
13 mail, instant messaging (IM), and short messaging service (SMS). The term “e-mail address”
14 refers to any identifier of a participant that allows for delivery of messages and/or content to the
15 participant’s internet-enabled device, including, but not limited to, standard “name@domain.tld”
16 e-mail addresses, IP addresses, and phone numbers.

17 The following is a rough schema of the tables required by an ezine database of the
18 preferred embodiment. Although described below with reference to an ezine, the system is
19 equally suited for delivery of any information or content requested by subscribers to any internet-
20 enabled device, including, but not limited to, newsletters, marketing messages, alerts and other
21 subscriber requested content.

22 The “basic” tables describe individual entities in the ezine system: users (subscribers and
23 webmasters), ads, and the different ezines themselves. These tables do not rely on information

1 from other tables, and so have unique primary (i.e., not composite) keys.

3 *Confirmation Table*

4 Each row of this table describes one subscriber's confirmation information. Each row
5 need only persist until a subscriber has confirmed their subscription, and can then be deleted.

6 Columns:

- 7 • email (primary key) // required, varchar(80), references
8 email field in user table
- 9 • ezine_code_list // required, varchar(60), space-
10 delimited list of ezines initially signed up for, ignored
11 once they have confirmed their signup - look in
12 ezine_subscriber table instead.
- 13 • referring_account_number // required, varchar(80),
14 references account_number in webmaster table for initial
15 signup (before confirmation). Ignored after subscriber
16 confirms - look in ezine_subscriber table instead.

18 *User Table*

19 Each row of this table describes information common to any participant (either subscriber
20 or webmaster)

21 Columns:

22 Info for all participants (webmasters or subscribers)

- 23 • email (primary key) // required, varchar(80)
- 24 • first_name // required, varchar(30)
- 25 • last_name // required, varchar(30)
- 26 • zip_code // required, char(10)
- 27 • country // required, varchar(30), range is list of
28 provided countries
- 29 • signup_datetime // required, datetime, this is the time
30 when the subscriber is mailed their initial signup letter
- 31 • IP_address // required, char(15)
- 32 • is_valid_email // required -- is this a valid email

- address, char(1), Y|N
- admin_comments // optional, text, any comments that we want to add about this user. This is not information the user provides.
- is_active // optional, char(1), Y|N is this user "active," i.e., can they receive ezines and be paid
- last_modified_timestamp // timestamp, not null
- num_bounced_deliveries // int, number of delivery attempts to this user which have bounced

Subscriber Table

Each row of this table describes one subscriber.

Columns:

- email (foreign key) // required, varchar(80), references email field in user table
- confirmation_string // required for S, char(64), md5(email)+ datetime + process ID
- cookie_info // required for S, varchar(100)
- is_HTML_reader // required, char(1), Y|N -- can this subscriber receive HTML-ified ezines

All these are optional info for subscribers. Different ones will be displayed to different subscribers when they sign up, based on the referring webmaster.

- gender // char(6), Male or Female
- age // char(10), ranges: <13, 13-17, 18-21, 22-24, 25-29, 30-35, 36-40, 41-49, 50-59, 60-65, 65+
- education_level // varchar(40), ranges: "some high school," "high school graduate," "some college," "vocational/technical training," "college graduate," "graduate school," "doctorate"
- marital_status // char(7), range is married|single
- num_children // char(2), range is 0, 1, 2, 3, 4, 5+
- occupation // varchar(40), range: "professional," "administrative/clerical," "management," "designer/artist," "Internet professional," "educator," "marketing/sales," "engineer," "writer," "homemaker," "military service," "consultant," "legal field,"

- 1 "student," "retired," "other"
- 2 • income // varchar(10), range: <25K, 25-49K, 50-74K, 75-
- 3 99K, 100-149K, 150-199K, 200K+
- 4 • primary_computer_use // char(40), range is "home,"
- 5 "business," "home office," "school," "government
- 6 facility"
- 7 • interests // text, range is a comma-delimited list of
- 8 items that appear as checkboxes on the signup page:
- 9 sports, travel, entertainment/humor, dining, investments,
- 10 gaming, computing, autos, men's issues, women's issues,
- 11 health issues, trivia, astrology
- 12 • items_purchased // varchar(255), any items the
- 13 subscriber has purchased on the net
- 14 • like_to_purchase // varchar(255), any items the
- 15 subscriber would like to purchase on the net
- 16 • plan_to_purchase // varchar(40), any items the subscriber
- 17 is planning to purchase in the next year, range:
- 18 "vehicle," "boat," "house," "computer equipment,"
- 19 "vacation package," "stereo equipment," "VCR"
- 20 • net_access_frequency // varchar(40), "every day," "once
- 21 or twice a week," "two or three times a month," "once a
- 22 month or less"
- 23 • wants_to_receive_email // char(1), Y|N -- does this
- 24 subscriber want to receive email about items of interest
- 25 • last_modified_timestamp // timestamp, not null
- 26 • email_md5 // varchar(64), not null, this is the md5 hash
- 27 value of the email address
- 28

29 *Webmaster Table*

30 Each row of this table describes one webmaster.

31 Columns:

- 32 • email (foreign key) // required, varchar(80), references
- 33 email field in user table
- 34 • account_name // required, varchar(25), must be >= 6 chars
- 35 • account_number (primary key, auto_increment) // required,
- 36 integer
- 37 • password // required, varchar(25), must be >= 6 chars
- 38 • address_line_1 // required, varchar(30)
- 39 • address_line_2 // optional, varchar(30)

- city // required, varchar(25)
- state // required, char(2), range is a list of state abbreviations, or N/A to indicate outside the US
- phone_number // required, varchar(20)
- payee_on_check // required, varchar(50)
- minimum_check_value // required, decimal(7,2)
- tax_ID_or_SSN // required, varchar(20)
- referral_rate // required -- for user referrals, decimal(4,2), default ".10"
- second_tier_rate // required -- for second-tier referrals, decimal(4,2), default ".04"
- referring_account_number // optional, varchar(80), the user who referred this one, references account_number field in webmaster table
- referring_URL // optional, varchar(80), website through which this webmaster was referred
- last_modified_timestamp // timestamp, not null

Sign-up Field Table

Each row of this table describes one possible field of data we want to collect for users.

Columns:

- field_name (primary key) // required, varchar(30), should exactly match one of the optional subscriber fields in the user table
- display_name // required - what the user sees on the web page, varchar(255)
- data_type // required, varchar(12), range is INT, STRING, DATE, etc.
- HTML_input_type // required -- type of control to show for this field on web page, varchar(12), range is checkbox, textfield, text, radio button, etc.
- value_range // optional, text, comma-delimited range if provided, else free-form text if not provided

Ezine Description Table

Each row of this table describes one ezine.

Columns:

- 1 • ezine_code (primary key) // required, char(2), two-
- 2 character ezine code
- 3 • ezine_name // required, varchar(30), ezine
- 4 name
- 5 • ezine_URL // required, varchar(80), ezine
- 6 location
- 7 • short_description // required, varchar(80),
- 8 description in a few words
- 9 • long_description // required, varchar(255), several
- 10 sentence description
- 11 • thank_you_text // required, varchar(255), for
- 12 signup
- 13 • is_active // required, char(1), Y|N -- is
- 14 this an active ezine
- 15 • creation_datetime // datetime, when this ezine was
- 16 created

18 *Ad Table*

19 Each row of this table describes one ad that can be inserted into an ezine issue

20 Columns:

- 21 • banner_id (primary key) // required, varchar(30)
- 22 • banner_text // required, TEXT
- 23 • banner_URL // required, varchar(80)
- 24 • num_clicks // required, BIGINT DEFAULT 0
- 25 • num_impressions // required, BIGINT DEFAULT 0
- 26 • is_active // required, char(1)
- 27 • entry_datetime // required, datetime

29 *Advertiser Table*

30 Each row of this table describes one advertiser

31 Columns:

- 32 • system_account (primary key) // varchar (50) not null
- 33 • advertiser_name (unique) // varchar (50), not null

35 *Ad Campaign Table*

1 Each row of this table describes one advertiser campaign

2 Columns:

- 3 • campaign_id (primary key) // varchar(30) not null
- 4 • system_account (unique) // varchar (50) not null,
5 references system_account in advertiser table
- 6 • banner_id // varchar(30) not null, references banner_id in
7 ads table
- 8 • num_clicks // bigint default 0
- 9 • num_impressions // bigint default 0
- 10 • start_datetime // datetime
- 11 • end_datetime // datetime
- 12 • comments // text
- 13 • gross_payment // decimal(5,2)
- 14 • percent_done // int(3)
- 15 • target_percent // int(3)
- 16 • unit_difference // bigint
- 17 • effective_CPM // bigint

19 The following tables are derived from information in the basic tables above. They also
20 contain some information unique to themselves. Note that these tables could have duplicate ID
21 keys, but will have unique composite keys.

23 *Website Table*

24 Each row of this table describes a webmaster and a website (since a webmaster might
25 own several different sites).

26 Columns:

- 27 • site_URL (primary key) //required, varchar(80)
- 28 • site_name // required, varchar(80)
- 29 • site_description // required, varchar(255)
- 30 • account_number (foreign key) // required, varchar(80),
31 references account_number field in webmaster table

Website Sign-up Field Table

Each row of this table describes a sign-up field to be displayed to new subscribers when they are referred by the specified website.

Columns:

- `site_URL` (foreign key) // required, `varchar(80)`, references `site_URL` field in `website` table
- `field_name` (foreign key) // required, `varchar(30)`, references `field_name` in `signup field` table
- `is_required` // required -- is this subscriber required to fill in this field when they signup from this site, `char(1)`, Y|N

Website Hosted Ezines Table

Each row of this table describes one ezine that can be hosted by a given website when the website is being used by a webmaster to generate subscriptions.

Columns:

- `ezine_code` (foreign key) // required, `char(2)`, references `ezine_code` in `ezine` table;
- `site_URL` (foreign key) // required, `varchar(80)`, references `site_URL` in `signup field` table

User Payout Table

Each row is the payout for a given participant on a given date if the participant is to be paid for the subscription.

Columns:

- `account_number` (foreign_key) // required, `varchar(80)`, references `account_number` in `webmaster` table
- `amount_paid` // `decimal(14,5)`, not null
- `date_paid` // required, `date`, when paid

Ezine Subscribers Table

Each row of this table describes one subscriber to a given ezine

Columns:

- email (foreign key) // required, varchar(80), references email in user table
- ezine_code (foreign key) // required, char(2), references ezine_code in ezine table
- signup_datetime // required, datetime, when user signed up to receive this ezine
- last_modified_timestamp // timestamp, this is the last time that the user modified their subscription to this ezine. Initially this is the same as signup_datetime.
- is_active // required, char(1), Y|N-- is active recipient of this ezine
- referring_account_number // optional -- the first (and only) user who referred this subscriber to this ezine, varchar(80), references account_number key in webmaster table
- referring_URL // optional, varchar(80), the website through which the user subscribed to the ezine

Ezine Issue Table

Each row of this table describes one mailing or issue of any ezine

Columns:

- issue_id (primary key) // required, varchar(30)
- ezine_code (foreign_key) // required, char(2), references ezine_code in ezine table
- last_modified_timestamp // required, timestamp
- req_start_datetime // datetime, when delivery of this issue was requested to begin
- actual_start_datetime // datetime, when delivery of this issue actually began
- end_queue_datetime // datetime, when this issue was fully queued
- end_delivery_datetime // datetime, when issue's delivery completed
- status // required, char (1), status of this issue's

1 delivery D|S|P|I (disabled, sent, pending, in progress)
2 • num_recipients // bigint, not null
3

4 *Ezine Ad Stats Table*

5 Each row of this table describes one ad's impression and click statistics for a given ezine
6 or individual mailing of an ezine.

7 Columns:

- 8 • banner_id (foreign key) // required, varchar(30),
9 references banner_id in ad table
- 10 • num_clicks // required, bigint, how many times this
11 ad has been clicked from this ezine
- 12 • position_in_ezine // required, int(3), position of ad in
13 ezine
- 14 • issue_id (foreign_key) // required, varchar(30) references
15 issue_id in ezine_issue table
16

17 *Subscriber Click Stats Table*

18 Each row of this table describes one ad that a subscriber has clicked on

19 Columns:

- 20 • email_md5 (foreign_key) // required, varchar(64),
21 references email_md5 in subscriber table
- 22 • banner_id (foreign_key) // required, varchar(30),
23 references banner_id in ad table
- 24 • issue_id (foreign_key) // required, varchar(30), references
25 issue_id in ezine_issue table
26

27 The following tables are for ezines administration purposes

28

29 *Admin User table*

30 Columns:

- 1 • username varchar(80) not null
- 2 • password varchar(30) not null
- 3 • first_name varchar(30) not null
- 4 • last_name varchar(30) not null
- 5 • signup_datetime datetime not null
- 6 • IP_address varchar(15) not null
- 7 • ezine char(1) not null
- 8 • user char(1) not null
- 9 • internal char(1) not null
- 10 • stats char(1) not null
- 11 • content char(1) not null
- 12

13 *Admin Login Log Table*

14 Columns:

- 15 • username varchar(80) not null
- 16 • entry_datetime datetime not null
- 17 • IP_address varchar(15) not null
- 18

19 *Admin Error Log Table*

20 Columns:

- 21 • username varchar(80) not null
- 22 • entry_datetime datetime not null
- 23 • IP_address varchar(15) not null
- 24 • error_msg varchar(50) not null
- 25

26 *Admin Activity Log Table*

27 Columns:

- 28 • username varchar(80) not null
- 29 • entry_datetime datetime not null
- 30 • IP_address varchar(15) not null
- 31 • function varchar(30) not null
- 32

1 The software of the invention also provides various web interface tools for the ezine system,
2 including those used by ezine administrators, webmasters, subscribers, including:

3 • Ezine Content Creation

4 This allows a list creator/moderator to submit content for a list.

5 • Distribution Administration

6 Allows ezine administrator to indicate start time for distribution of one or more ezines.

7 Also allows administrator to cancel one or more distributions in progress. Administrator
8 should be able to add or remove subscribers or webmasters, as needed.

9 • Stats Viewer

10 Allows ad server personnel to view/extract database stats about ads, lists, webmasters,
11 individual ezines, or subscribers.

12 • Subscriber Sign-up

13 Allows subscribers to sign up for one or more ezines or other information they want. At
14 this point, the user enters their e-mail address and selects the ezines or other information
15 they want. A confirmation number is e-mailed to them, which they must use to confirm
16 their sign-up. If possible, a cookie is put on their device at this point.

17 • Subscriber Confirmation

18 This is where the user confirms their sign-up for the selected ezines. They are optionally
19 required to fill out a survey. Once completed, they are added to the mailing list for the
20 desired ezines or other information.

21 • Subscriber Ezine Change

22 Allows subscribers to sign-up for new ezines or cancel subscription to ezines they're
23 already receiving.

1 • Webmaster Sign-up

2 Allows webmasters to sign up, and indicate a referring (second-tier) webmaster. The
3 webmaster is required to fill out a survey of information.

4 • Webmaster Stats/Admin

5 Allows webmasters to view the stats for the number of subscribers and webmasters
6 they've referred to the program (and the payout they'll receive). They can also change
7 their account info and get the required HTML code to place on their webpages or get
8 other information needed to refer subscribers.

9 • Conversion utility

10 Imports existing flat files into a database (i.e., MySQL or Oracle). These are a series of
11 perl or other language scripts that process the various flat files, and write a handful of
12 new flat files which contain the combined data. These new flat files can then be imported
13 into the database via the LOAD or other command.

14 • Bounce remover

15 Removes undeliverable addresses from the database. To facilitate this, the present
16 invention adds its own header to each e-mail sent: X-Sent-To: address@domain.com.

17
18 An example of the webmaster coding which can be provided as part of this invention is
19 disclosed in the following JavaScript:

20
21 <script language="javascript">
22 function thankyou_ne() {
23 var w =
24 window.open("", "thankyou", "scrollbars=yes, resizable=no, toolbar=n
25 o, directories=no, status=no, menubar=no, location=no, screenX=200, scr

```

1  eenY=200,width=640,height=500");
2      return true;
3  }
4  </script>
5

```

6 This is how the <form> tag is defined:

```

7  <form target="thankyou"
8  action="http://webserver1.teknosurf.com/cgi-bin/subscribe.cgi"
9  method="post" onsubmit="return (
10 (this.email.value.indexOf(&quot;@&quot;)>0 &amp;&amp;
11 this.email.value.indexOf(&quot;.&quot;)>0) ? thankyou_ne() :
12 (alert(&quot;Please enter a valid email address.&quot;)) ||
13 false) )">
14

```

15 The following line is added to the form:

```

16 <input type="hidden" name="code_num" value="1">
17

```

18 In operating the present invention, it is preferable to use a webmaster's account_number
19 instead of account_name in referring_account field. This requires changes to the import script.
20 Also, if user logs in via account_name, the system can get the corresponding number and pass
21 that along to the webmaster-*.cgi scripts.

22 **Figure 1** illustrates a basic network architecture for practicing the present invention,
23 wherein an ad server **110** supplies the needed software to webmaster servers **120** and subscriber
24 devices **130**, either directly or indirectly (i.e., via another webmaster server or subscriber device
25 which already has downloaded the software) over internet **100**.

26 In a preferred embodiment, the ad server **110** provides both an ad server database **112** and
27 a referral/payout database **114**. The system also can include a separate list server **140**, that
28 maintains its own subscriber list database **142**, and a separate content server **150**.

29 **Figure 2** illustrates a basic flow diagram for practicing the present invention. An initial

1 step **200** in the process is for webmasters to sign-up and download the software needed to
2 practice the invention from an enabling entity such as an ad server. This sign-up can be done in
3 any suitable manner, but is preferably accomplished through use of a web-based sign-up form or
4 page, wherein the webmaster provides the input required for the user table and the webmaster
5 table, as described above. This input can also include any referring webmaster information.

6 Consumers, likewise at **220**, sign-up and download the software they need to practice the
7 invention from an enabling entity such as an ad server or webmaster server. Again, this sign-up
8 can be done in any suitable manner, but is preferably accomplished through use of a web-based
9 sign-up form or page, wherein the consumer provides the input required for the confirmation
10 table, user table, and subscriber table, as described above. This input can also include any
11 referring webmaster or referring subscriber information.

12 As participants, the webmasters and subscribers have the necessary software/code to
13 refer, at **230**, other webmasters and subscribers and this information is tracked by the ad server,
14 at **250**.

15 The information or content that the subscriber has opted-in to receive is e-mailed to the
16 subscriber at **240**, and the subscriber responses are tracked at **250**.

17 The information collected is then used for purposes such as to calculate incentives and
18 payouts for the program participants, at **260**. Additionally, the ad server can analyze the collected
19 information by categories/fields, including but not limited to, website, ezine, ad campaign, ad, ad
20 position, subscriber (including demographics, etc.), time, etc. to improve the effectiveness of the
21 marketing response.

22 As disclosed above, the present invention makes it easy to collect, manage, and
23 communicate with consumers using e-mail and other forms of push-based messaging as the

1 primary vehicle for communication of marketing content. The present system makes it simple to
2 offer bounties or other types of compensation to any participant interested in referring new users
3 into the system as well as offer a multiple tier referral system so that those participants can refer
4 others as well. The present invention makes it possible to track the entire path of a
5 communication and all of the actions inside of it for modeling, reporting, auditing and other
6 analytical purposes. The system also simplifies the process for generating custom marketing
7 communications in large capacity. The present invention simplifies the process of enabling the
8 selection, insertion and delivery of marketing communications inside of the main communication
9 layer and enables an administrator to easily administer all aspects of the software from an
10 intuitive web based interface. As disclosed, it enables the systems to run self-sufficient and be
11 monitored for maximum performance. The present invention also enables the entire system to be
12 scaleable.

1 I Claim:

2 1. A method for e-mail-based opt-in marketing, comprising:

3 providing an ad server connected to an internet;

4 providing a database connected to said ad server;

5 having at least one webmaster server connected to said internet;

6 having at least one internet-enabled subscriber device connected to said internet;

7 providing software instructions on each said webmaster server for collecting an e-mail
8 address for said subscriber device and storing said e-mail address on said database by having an
9 operator of said subscriber device input said e-mail address and make a selection to opt-in for
10 delivery of information and/or content to said e-mail address; and

11 providing software instructions on said ad server to facilitate delivery of said information
12 and/or content to said subscriber device, wherein said information and/or content includes an ad.

13 2. The method of claim 1, further comprising providing an incentive to said subscriber.

14 3. The method of claim 2, wherein said incentive is for responding to said ad and is selected
15 from the group consisting of redeemable program points, prizes, discounts on goods or services,
16 sweepstakes entries, currency, and goods or services.

17 4. The method of claim 1, further comprising providing compensation to said webmaster or
18 said subscriber for referrals.

19 5. The method of claim 1, further comprising providing compensation to said webmaster or
20 said subscriber for subscriber responses to ads in said information and/or content.

21 6. The method of claim 1, wherein said information and/or content is selected from the
22 group consisting of ezines, newsletters, alerts and marketing messages.

23 7. A system for e-mail-based opt-in marketing, comprising:

1 providing means for said consumer to opt-in to subscribe to receive ad-containing
2 information and/or content at their e-mail address from said e-mail marketing program;
3 providing software to said consumer to allow said consumer to refer other consumers to
4 said e-mail marketing program as referrals;
5 providing compensation to said consumer for any referrals; and
6 providing incentives to said consumer for responding to ads in said information and/or
7 content.

8 14. The method of claim 13, wherein said compensation is selected from the group consisting
9 of currency, goods or services, discounts on goods or services, redeemable program points and
10 prizes.

11 15. The method of claim 13, wherein said incentives are selected from the group consisting
12 of sweepstakes entries, currency, goods or services, discounts on goods or services, redeemable
13 program points and prizes.

14 16. The method of claim 13, wherein said information and/or content is selected from the
15 group consisting of ezines, newsletters, and marketing messages.

16 17. A method for encouraging webmasters to participate in an e-mail marketing program,
17 comprising:

18 providing software to said webmaster to allow said webmaster to subscribe consumers to
19 receive ad-containing information and/or content at their e-mail address from said e-mail
20 marketing program;

21 providing software to said webmaster to allow said webmaster to refer other webmasters
22 to said e-mail marketing program as referrals;

23 providing compensation to said webmaster for any referrals; and

providing compensation to said webmaster for subscribing consumers to said e-mail marketing program.

18. The method of claim 17, wherein said compensation is selected from the group consisting of currency, goods or services, discounts on goods or services, redeemable program points and prizes.

19. The method of claim 17, wherein said information and/or content is selected from the group consisting of ezines, newsletters, and marketing messages.

[illegible]

1 ABSTRACT

2 The present invention makes it easy to collect, manage, and communicate with
3 consumers using e-mail and other forms of push-based messaging as the primary vehicle for
4 communication of marketing content. The software makes it simple to offer bounties or other
5 types of compensation to any participant interested in referring new users to into the system as
6 well as offer a multiple tier referral system so that those participants can refer others as well.
7 The present invention: makes it possible to track the entire path of a communication and all of
8 the actions inside of it for modeling and other analytical purposes; simplifies the process for
9 generating custom marketing communications in large capacity; simplifies the process of
10 enabling the selection, insertion and delivery of marketing communications inside of the main
11 communication layer and enables an administrator to easily administer all aspects of the software
12 from an intuitive web based interface.

FIG. 1

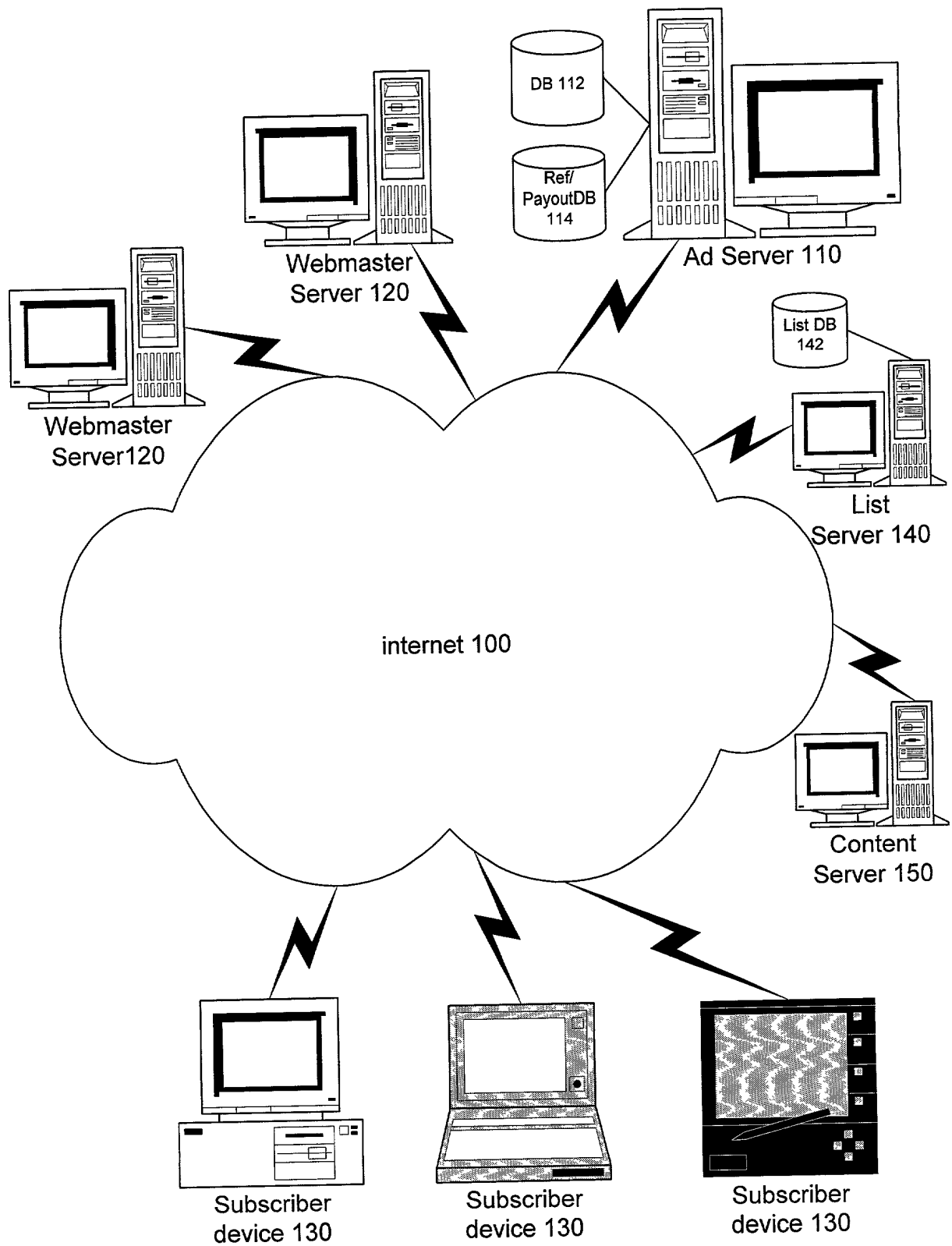


FIG. 1

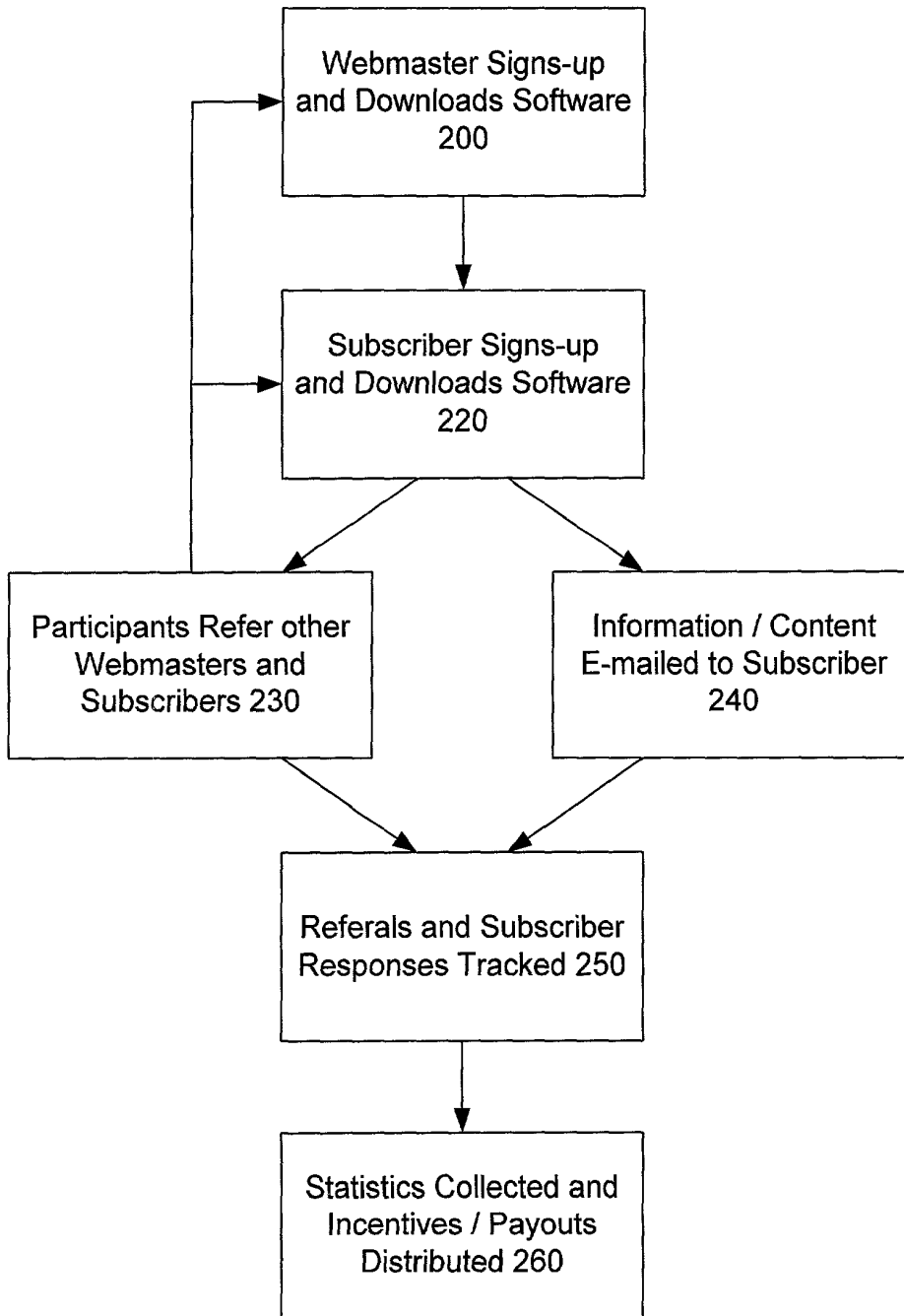


FIG. 2

Figure 1 consists of 11 subplots (a-k) showing the effect of 100 mg/kg BW of 17β-OH progesterone on various parameters in 12-month-old female rats. The subplots are arranged in two columns. The left column (a, c, e, g, i, k) shows parameters related to the estrous cycle, and the right column (b, d, f, h, j) shows parameters related to uterine and vaginal changes. Each subplot compares a control group (open bars) and a progesterone-treated group (filled bars). Statistical significance is indicated by asterisks (*, **, ***).

- a** Estrous cycle: Control (open bar) is approximately 1.0, while progesterone-treated (filled bar) is significantly lower at approximately 0.5 (**).
- b** Uterine weight: Control (open bar) is approximately 0.5, while progesterone-treated (filled bar) is significantly higher at approximately 1.0 (**).
- c** Vaginal opening: Control (open bar) is approximately 1.0, while progesterone-treated (filled bar) is significantly lower at approximately 0.5 (**).
- d** Uterine length: Control (open bar) is approximately 1.0, while progesterone-treated (filled bar) is significantly higher at approximately 1.5 (**).
- e** Vaginal length: Control (open bar) is approximately 1.0, while progesterone-treated (filled bar) is significantly lower at approximately 0.5 (**).
- f** Uterine diameter: Control (open bar) is approximately 1.0, while progesterone-treated (filled bar) is significantly higher at approximately 1.5 (**).
- g** Vaginal diameter: Control (open bar) is approximately 1.0, while progesterone-treated (filled bar) is significantly lower at approximately 0.5 (**).
- h** Uterine volume: Control (open bar) is approximately 1.0, while progesterone-treated (filled bar) is significantly higher at approximately 1.5 (**).
- i** Vaginal volume: Control (open bar) is approximately 1.0, while progesterone-treated (filled bar) is significantly lower at approximately 0.5 (**).
- j** Uterine weight: Control (open bar) is approximately 1.0, while progesterone-treated (filled bar) is significantly higher at approximately 1.5 (**).
- k** Vaginal weight: Control (open bar) is approximately 1.0, while progesterone-treated (filled bar) is significantly lower at approximately 0.5 (**).

Serial No.: Not yet assigned

Filed: Herewith

For: **Method and Apparatus for an E-mail Affiliate Program**

As below inventor, I hereby declare that:

I believe I am the original, joint and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **Method and Apparatus for an E-mail Affiliate Program**, the specification of which is attached hereto.

I hereby claim the benefit under U.S.C. §119(e) of the United States provisional application no. **60/166,690**, filed **November 20, 1999**.

I hereby appoint the following attorney(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

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